MOOC Framework - Bug #12436

DAS Alarm define_trigger status : -3 messages at startup

05/03/2016 10:45 AM - Dennis Nicklaus

Status:	Closed	**Start date:**	05/03/2016
Priority:	Urgent	**Due date:**	
Assignee:	Charles Briegel	**% Done:**	100%
Category:		**Estimated time:**	0.20 hour
Target version:			

Description

On some of my frontends, using mv5500/mooc-4.4.out, at the end of startup, I get these messages:

```
-> Alarm Download Enabled
DAS Alarm define_trigger FTD : b4, status : -3
DAS Alarm define_trigger FTD : b4, status : -3
DAS Alarm define_trigger FTD : b4, status : -3
DAS Alarm define_trigger FTD : b4, status : -3
DAS Alarm define_trigger FTD : b4, status : -3
DAS Alarm define_trigger FTD : b4, status : -3
SLAM. Done reloading the 1 crate
```

I don't know what causes those Alarm define_trigger messages, and status of -3 seems to be some error? (e.g. I get it on cmtil2 and 3).

Related issues:

Blocks MOOC Framework - Milestone #12886: Release MOOC 4.5	**Closed**	**06/08/2016**

History

#1 - 05/03/2016 10:58 AM - Richard Neswold

- Status changed from New to Assigned

#2 - 05/03/2016 11:10 AM - Richard Neswold

- Description updated

It's a "BAD DELAY" error from t_define_trigger. What delay are you using?

#3 - 05/03/2016 03:31 PM - Dennis Nicklaus

Hey, Charlie! This seems to related to

```
CVS revision 1.68
date: 2015/11/06 21:35:43;  author: briegel;
"modifications for 720 hz triggers"
```

These lines of code were changed, and it is the "else if" check that fails and gives the error message I see.

```
<       del_60hz = ((delay + ftd_event_delay(ftd)) * 60 + 999) / 1000;
<     else if ((del_60hz = (delay * 3 + 49) / 50) >= ftd) {
---
>       del_720hz = ((delay + ftd_event_delay(ftd)) * 720 + 999) / 1000;
>     else if ((del_720hz = (delay * 18 + 17) / 25) >= ftd) {
```

You are multiplying delay by 6 times as much as before, but only dividing by half as much. So it's going to go up by 12 (from 60 to 720)
FTD's are still in units of 1/60 s. The t_define_trigger delay parameter is still defined as being in ms according to the comments, which it always was.
The alarms code makes delays of 0, 1000, or 2000. I believe the above code now makes the max allowable delay be only 354ms, (corresponding to FTD=ff)
whereas before it was 4233ms.

In short, front-ends using this code aren't getting 2/3 of their alarms scanned.

#4 - 05/03/2016 03:31 PM - Dennis Nicklaus

- Assignee changed from Dennis Nicklaus to Charles Briegel

- Priority changed from Normal to Urgent

#5 - 05/03/2016 04:43 PM - Richard Neswold

The problem is he didn't scale ftd in the test. I think the second line should be

```
      else if ((del_720hz = (delay * 18 + 24) / 25) >= ftd * 12) {
```

#6 - 05/05/2016 04:36 PM - Charles Briegel

- % Done changed from 0 to 100

- Estimated time set to 0.20 h

done as per suggestion by Rich Neswold.
currently in beta

#7 - 05/23/2016 01:39 PM - Richard Neswold

- Status changed from Assigned to Feedback

This is installed in mooc-beta. Dennis, can you test to see if the errors go away? We should probably check to see that MOOC alarms scan properly in 60Hz and 720Hz modes.

#8 - 05/23/2016 03:26 PM - Dennis Nicklaus

I checked on my front-ends and Mooc 4.5 seems to solve the problem. (No more error message, and I checked most (9/12) of the devices on the FE and verified that their alarms were getting checked.)

#9 - 06/08/2016 01:45 PM - Richard Neswold

Charlie still needs to verify that triggers fire correctly when using 720Hz support.

#10 - 06/08/2016 01:48 PM - Richard Neswold

- Blocks Milestone #12886: Release MOOC 4.5 added

#11 - 07/06/2016 09:49 AM - Richard Neswold

- Status changed from Feedback to Closed

Charlie says he verified it works with 720Hz.